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Fax Cover Sheet

Date: October 8, 2004

Sent To: Mr. Zia Hashmi

Fax Number: 703-872-9306

Re: Patent Application No. 10/036,240

From: Dr. Behrouz Amini

Fax Number: 865-531-3892

Phone Number: 865-363-3550

Pages Sent (Including this page): 8

Comments: The following documents are faxed with this sheet:

- 1- My response to the Examiner's Office Action, 7 pages total.

(Application No. 10 / 036,240)

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In the United States Patent and Trademark Office

Application/Control Number 10/036,240
Art Unit 2881
Filed: Jan. 3, 2002
Examiner: Zia R. Hashmi

Applicant Behrouz Amini
For: A High Power High Yield Target for Production of all Radioisotopes for
Positron Emission Tomography

Dear Mr. Hashmi:

I have carefully studied your Office action of June 9, 2004. My response to your Office action is attached to this page.

I believe my response will substantiate that Claims 1-15 of my invention are patentably distinct from the prior art. As a result, I respectfully request reconsideration and allowance of Claims 1-15 of my invention.

In our telephone conversation of October 6, we discussed the possibility of canceling dependant Claim 6, since it seemed that this claim might partially overlap with Welsh et al's disclosure. The subject of dependant Claim 6 is with regard to cooling the target sample with a cooling fluid. After further studying Welsh et al's disclosure I realized that Welsh et al. do not and cannot cool their target with a cooling fluid. They use a solid target, a solid electroplated metallic piece. Their target is loaded and unloaded automatically. During the bombardment it is held in a target holer without being attached to a cooling means. These issues are further discussed in my response. As a result, for the time being I leave dependant Claim 6 as is.

Sincerely,

Behrouz Amini
Behrouz Amini
(Applicant)